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国产刺参属二新种

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TWO NEW SPECIES OF *MORINA* L. FROM CHINA

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Abstract This paper reports two new species of *Morina* L. from western China, namely *M. bracteata* C. Y. Cheng et H. B. Chen and *M. lorifolia* C. Y. Cheng et H. B. Chen.

Key words *Morina*; *M. bracteata*; *M. lorifolia*

关键词 刺参属；宽苞刺参；窄叶刺参

宽苞刺参 新种 图 1

Morina bracteata C. Y. Cheng et H. B. Chen, sp. nov.

Species *M. Chloranthae* Diels similis, sed bracteis involucri ovato-oblongis, apice obtuse acutis vel subrotundis, tantum margine inferiore spinosis, lobis calycis non bipartitis, tantum apice retusis, rotundatoobtusis differt.

Herba perennis, ad 45 cm alta. Radix gracilis et longa deorsum pluriramosa, Caulis fistulosus, inferne subglaber, sursum sensim tomentosus, basi petiolis vestigiorum atrofusco-fibroso-laceratis vestitus. Folia basalia caespitosa, lamina elliptica vel obovato-elliptica, 9—12 cm longa, 2.5—3 cm lata, apice acuminata, margine praeter basim integra, inermis, utrinque glabra, basi in petiolum sensim angustata, petiolis 4—8 cm longis, margine breviter spinulosis; folia caulina basalibus similia, verticillata quaterna breve petiolata vel sissilia. Verticillastri 6—7, superiores conferti, inferiores saepe remoti; involucrum 4-bracteatum, bracteis ovato-oblongis, 2.5—3.5 cm longis, glabris vel basi albo-pilosis, apice obtuso-acutis vel subrotundis, tantum margine inferiore spinosis; involucellum anguste campanulatum, 1—1.5 cm longum, extus albo-villosum, apice 10—12-dentatum, dentibus inaequalibus, 6 vel 7, longioribus, 2—3 mm longis; calyx campanulatus, c. 9 mm longus, pubescens, bifidus, lobis 4.5—5 mm longis, apice retusis, rotundato-obtusis; corolla limbo calycis inclusa, pallida viridis, tubulosa, 5—6 mm longa, extus pubescens, limbo breviter bilabiato, lobis 5, subaequalibus; stamina fertilia 2, supra medium corollae inserta, filamentis brevioribus, barbatis; staminodia 2, basi corollae inserta; stylus staminoibus longior, stigmate

capitato. Achenia brunnea, obovato-oblonga, 6—6.5 mm longa, 3—3.5 mm lata, tuberculato-rugosa, apice oblique truncata.

Sichuan (四川): Butuo (布拖), Make (马科), in declivitate, alt. 3200 m, 1979. 08. 17, sine collectore, 0761 (Typus, in Sichuan Institute of Chinese Pharmacy)。

多年生草本，高约 45cm。根细长向下多分枝，茎具纵棱，下部近无毛，向上渐被绒毛，基部有棕黑色纤维状残留叶柄。基生叶簇生，叶片椭圆形或倒卵椭圆形，长 9—12cm，宽 2.5—3cm，顶端渐尖，边缘除基部外，全缘无刺，基部渐窄成柄，两面光滑，无毛，叶柄长 4—8cm，两侧稍具细刺；茎生叶似基生叶，4 叶轮生，具短柄或无柄。轮伞花序 6—7 轮，上部紧密相接，下部常疏离；总苞片每轮 4 片，卵状长圆形，长 2.5—3.5cm，无毛或基部被白色毛，先端钝尖或稍圆，仅下部边缘具刺；小总苞窄钟状，长 1—1.5cm，外面被白色柔毛，顶端齿刺 10—12，长短不一，6 或 7 枚较长，长 2—3mm；花萼钟状，长约 9mm，被柔毛，2 裂，裂片长 4.5—5mm，顶端微凹，圆钝；花冠短于花萼，淡绿色，管状，长 5—6mm，外面被柔毛，檐部稍呈二唇形，裂片 5，近相等；能育雄蕊 2，着生于花冠中部以上，花丝短，具髯毛，不育雄蕊 2 枚，着生于花冠基部；花柱稍长于雄蕊，柱头头状。瘦果褐色，倒卵长圆状，长 6—6.5mm，宽 3—3.5mm，具瘤状皱纹，顶端斜截形。

本种与绿花刺参 *M. chlorantha* Diels 相似，但本种总苞片卵状长圆形，先端钝尖或稍圆，仅下部边缘具刺，花萼裂片不分裂，仅顶端微凹，圆钝，二者区别明显。

窄叶刺参 新种 图 2

Morina lorifolia C. Y. Cheng et H. B. Chen, sp. nov.

Species *M. chinensi* Pai similis, sed foliis caulinis saepe verticillatis trinis vel quaternis, anguste linearibus, margine repando-dentatis, breviter spinulosis, calyce breviore, lobis calycis intus purpureis, corolla purpurea differt.

Herba perennis, c. 75 cm alta. Caulis fistulosus, inferne glaber, superne pilosus. Folia basalia ignota; folia caulina saepe verticillata trina vel quaterna, linearia, 10—20 cm longa, 0.7—1.2 cm lata, apice acuta, margine repando-dentata, breviter spinulosa, utrinque glabra, costis manifestis, inferiora longi petiolata, petiolis basi in vaginam connatis sursum sensim sessilia. Verticillastri 9—10 in spicam dispositi, superiores approximati, inferiores remoti; involucrum 3—4-bracteatum, bracteis longe ovatis, 2—5 cm longis, apice acuminatis, margine spinosis; involucellum anguste campanulatum, 8—10 mm longum, extus puberulum, apice 14—15-dentatum, dentibus inaequalibus, ad 4 mm longis; calyx campanulatus, 7—8mm longus, 2-lobatus, lobis breviter bifidis, rotundato-obtusis, intus purpureis, pubescentibus, extus virellis glabris; corolla limbo calycis inclusa, purpurea, tubulosa, 5.5—6.5 mm longa, extus pubescens, limbo breviter bilabiato, labio superiore bifido, inferiore trifido; stamina inclusa, fertilia 2, supra medium corollae inserta, filamentis brevis, barbatis; staminodia 2, basi corollae inserta; stylus staminibus fertilibus subaequalibus, stigmate capitato。 Achenia involucello totaliter inclusa, obovato-oblonga, 4—5 mm longa, c. 2 mm lata, tuberculato-rugosa.

Qinghai (青海): Datong (大通), Baoku (宝库), 1972. 08. 09, P. W. Li (李秉文) 72—140 (Typus, WNBI); Huangyuan (湟源), J. M. Liu (刘继孟) 6876 (PE)。

多年生草本，高约 75cm。茎具纵棱，下部光滑，上部被柔毛。基生叶未见；茎生叶常 3—4 叶轮生，线形，长 10—20cm，宽 0.7—1.2cm，先端急尖，边缘微波状浅齿裂，具较细的

齿刺，两面无毛，中脉明显，下部叶柄较长，基部合生成鞘，向上渐无柄。轮伞花序9—10轮，排成穗状，上面的彼此相近，下面的疏离；每轮有总苞片3—4，总苞片长卵形，长2—5cm，先端渐尖，边缘具刺；小总苞窄钟状，长8—10mm，外面被柔毛，顶端齿刺14—15，长短不等，长达4mm；花萼钟状，长7—8mm，裂片2，每裂片先端再2浅裂，小裂片钝，内面带紫红色，被柔毛，外面淡绿色，光滑；花冠藏于花萼内，紫红色，管状，长5.5—6.5mm，外面被柔毛，檐部略呈二唇形，上唇2裂，下唇3裂；雄蕊内隐，能育雄蕊2，着生于花冠中部以上，花丝短，有髯毛，退化雄蕊2枚，着生于花冠基部；花柱与能育雄蕊近平齐，柱头头状。瘦果完全藏于小总苞内，长圆倒卵状，长4—5mm，宽约2mm，表面具瘤状皱纹。

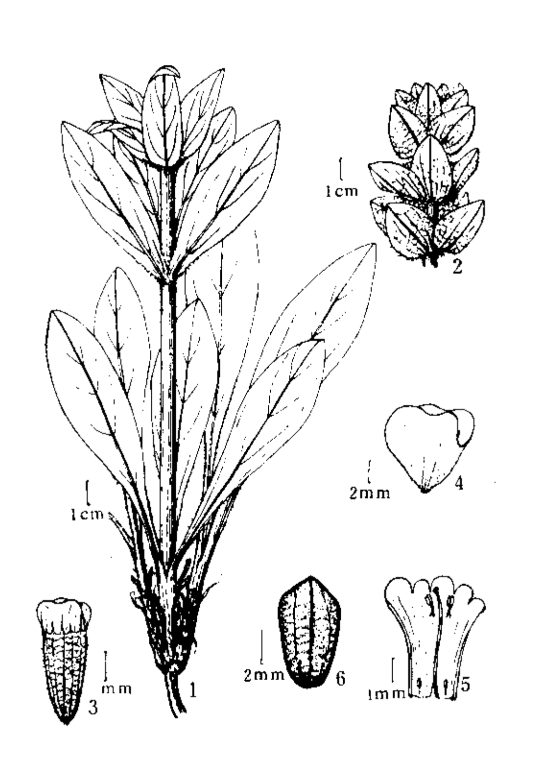


图1 宽苞刺参 1. 植株中下部；2. 花序；3. 小总苞及花萼；4. 花萼；5. 花冠展开；6. 瘦果。（陈虎彪绘）

Fig.1 *Morina bracteata* 1. habit sketch (lower half); 2. inflorescence; 3. involucel and calyx; 4. calyx; 5. corolla dissected; 6. achene.

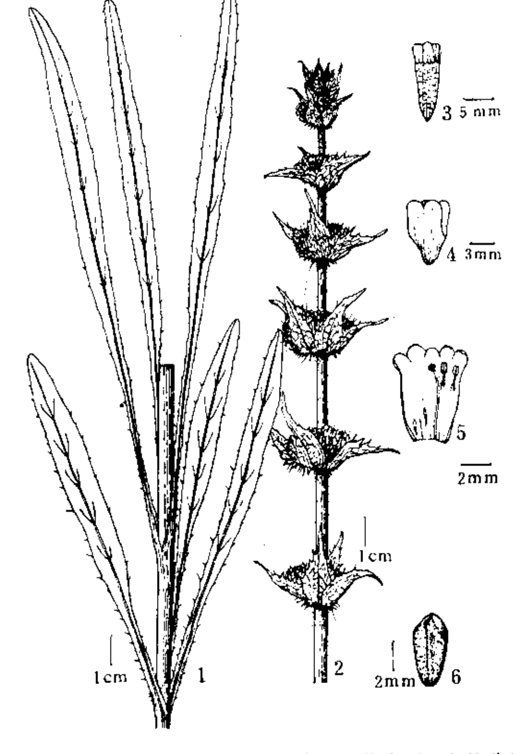


图2 窄叶刺参 1. 叶及部分茎；2. 花序；3. 小总苞及花萼；4. 花萼；5. 花冠展开；6. 瘦果。（陈虎彪绘）

Fig.2 *Morina lorifolia* 1. leaf with a part of stem; 2. inflorescence; 3. involucel and calyx; 4. calyx; 5. corolla dissected; 6. achene.

本种近似圆萼刺参 *M. chinensis* Pai，区别在于本种茎生叶常3—4叶轮生，叶线形，边缘微波状浅齿裂，具稍细的齿刺，花萼较短，花萼裂片内面紫红色，花冠紫红色。